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120 Watt HG Series

Shindengen America, Inc.

FEATURES

- Thermal Protection – Automatic Reset
- Remote Sense
- Remote ON/OFF
- Current Sharing
- Switching Frequency Synchronization
- Parallel Operation
- Series Operation
- Compact Footprint/Low Profile

Jameco Part Number 206105

SPECIFICATIONS

INPUT

Voltage Range	See Model Selection Table

OUTPUT

Output Voltage	See Model Selection Table
Output Voltage Adjustment	± 10% – See Engineering Data for details
Regulation	
Total	± 5% max.
Set Point	± 3% max.

	2V	5V	9V	12V	24V
Regulation					
Line (typ.)	2 mV	2 mV	4 mV	4 mV	8 mV
Load (typ.)	8 mV	8 mV	15 mV	15 mV	25 mV
Temp Drift (typ.)	30 mV	30 mV	60 mV	60 mV	120 mV
Noise & Ripple (peak-to-peak)	200 mV	200 mV	300 mV	300 mV	400 mV
Overvoltage Protection (max.)	5V	7V	12.2V	15.5V	32V

Output Current	See Model Selection Table
Dielectric Strength	500 VDC for one minute
Insulation Resistance	>100 MΩ (@ 500 VDC)

ENVIRONMENTAL

Operating Ambient Temp.	–10 to +80°C (see Engineering Data for derating)
Storage Temp.	–25 to +85°C
Cooling	Convection; See Engineering Data for details.

MECHANICAL

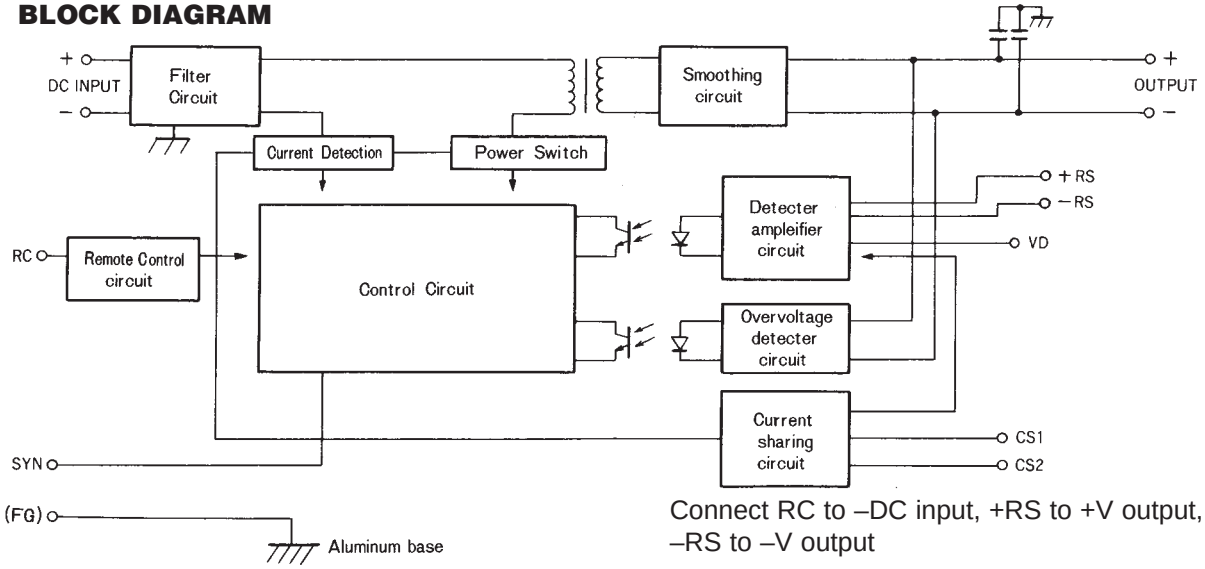
Shock	20G max., any side
Vibration	Amplitude 1.5 mm, 10 - 55 Hz scan in 1 minute; X, Y, Z direction for 2 hours each (non-operating).

MODEL SPECIFICATIONS

Output		24 (20-32)VDC		48 (40-60)VDC	
Volts	Amps	Model	Efficiency	Model	Efficiency
2	0-26.0	HGE02026	69%	HGG02026	69%
5	0-24.0	HGE05024	80%	HGG05024	81%
9	0-13.0	–	–	HGG09013	82%
12	0-10.0	HGE12010	81%	HGG12010	82%
24	0-5.0	HGE24005	81%	HGG24005	82%

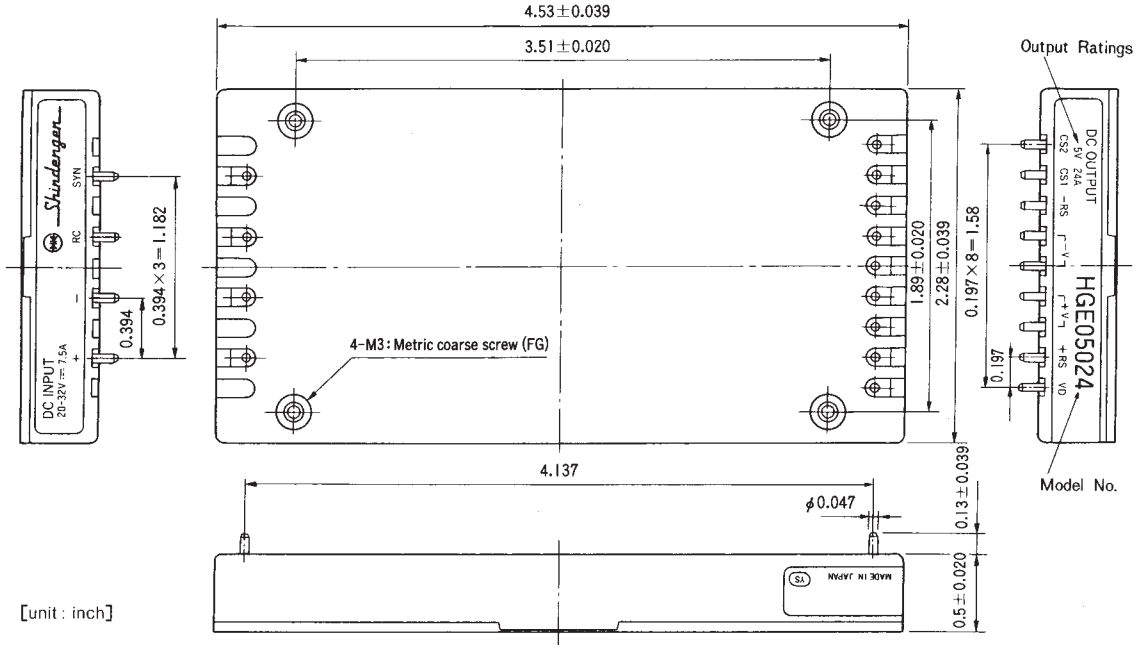
Optional heatsinks are available – please consult factory

BLOCK DIAGRAM

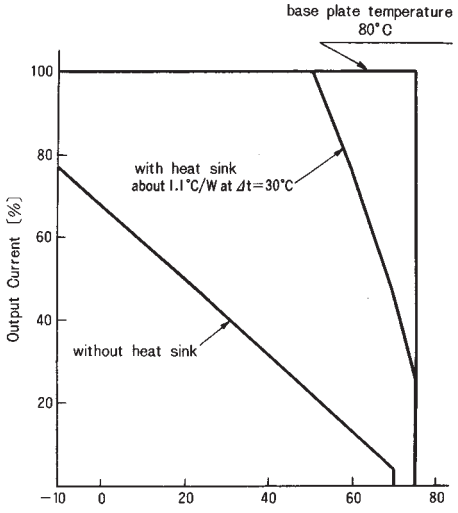


Connect RC to –DC input, +RS to +V output, and –RS to –V output

EXTERNAL DIAGRAM

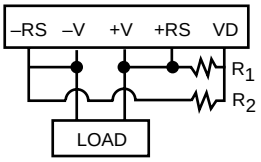


DERATING CHART

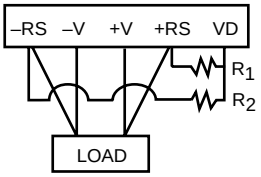


VOLTAGE ADJUSTMENT

w/o remote sensing



w/ remote sensing



Connect either R1 to lower output voltage, or R2 to raise output voltage

MECHANICAL SPECIFICATIONS

Size (W x D x H)	4.53 x 2.28 x 0.5 inches (115 x 58.0 x 12.7 mm)
Weight	4.7 oz (110 g)

Dimensions in inches; ( ) Dimensions in mm.